

What is claimed is:

1. A template type electrophoretic display comprising:
a lower electrode formed on an under layer;
a lower electrode protection layer formed on the lower electrode;
5 an insulating template formed on the lower electrode protection layer and
having a plurality of holes of smaller size than the wavelength of visible rays region;
a dielectric fluid filling the holes and having a color;
a plurality of charged particles suspended in the dielectric fluid filling each of
the plurality of holes having a color different from the color of the dielectric fluid; and
10 an upper electrode protection layer and an upper electrode formed on the
insulating template in sequential order.

2. The electrophoretic display of claim 1, wherein the charged particles
have the same specific gravity as the dielectric fluid.

3. The electrophoretic display of claim 1, wherein the lower electrode and
the upper electrode are shaped to form an array of pixels corresponding to the
plurality of holes in the insulating template.

4. The electrophoretic display of claim 1, wherein the charged particles
are smaller than the holes in the insulating template.

5. The electrophoretic display of claim 1, wherein the charged particles
are red, green or blue, scatter or absorb a specific color, and achieve natural colors.

6. The electrophoretic display of claim 1, wherein the diameter of the
holes in the insulating template is 10-400nm.

7. The electrophoretic display of claim 1, wherein a separation distance
between holes in the insulating template is less than 100nm.

8. The electrophoretic display of claim 1, wherein the thickness of the
insulating template is 10-1000 μ m.

9. The electrophoretic display of claim 1, wherein the lower electrode is composed of at least one electrode.

10. The electrophoretic display of claim 1, wherein the lower electrode is composed of an opaque inorganic material, an opaque organic material, or a combination of opaque inorganic and organic materials.

11. The electrophoretic display of claim 1, wherein the lower electrode is composed of a transparent inorganic material, a transparent organic material, or a combination of transparent inorganic and organic materials.

12. The electrophoretic display of claim 1, wherein the upper electrode is composed of a transparent inorganic substance, a transparent organic substance or a combination of transparent inorganic and organic substances.

13. A method of manufacturing a template type electrophoretic display, the method comprising:

fabricating an insulating template having a plurality of holes of smaller size than the wavelength of visible rays region;

adhering an electrode having a protection layer to one side of the insulating template with a binder;

injecting electric ink, which has a plurality of charged particles of one color suspended in a dielectric fluid of another color, into the holes of the insulating template; and

adhering another electrode having a protection layer to the other side of the insulating template, into which the electric ink is injected, with a binder.

14. The method of claim 13, wherein the insulating template is formed by applying anodic oxidation to a metal layer or a metal substrate.

15. The method of claim 13, wherein the insulating template is a polymer template which is formed by pouring a polymer into a mold of a template which is formed by applying anodic oxidation to a metal layer or a metal substrate.

16. The method of claim 15, wherein the mold is formed of a metal, a polymer or an oxide material.

5 17. The method of claim 13, wherein the binder is a thermosetting polymer or an ultraviolet ray setting polymer.

18. The method of claim 13, wherein the electric ink is injected into the holes in the insulating template by applying or reducing gas pressure.

10 19. The method of claim 13, wherein the electric ink is injected into the holes in the insulating template by fluid flow.

20. The method of claim 13, wherein the lower electrode is composed of at least one electrode.

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